

KEYSTAGE 1

YEAR 1

NUMBER AND PLACE VALUE

Given a number identify one more and one less.

Identify and represent numbers using objects and pictorial representations and use the language of equal to, more than, less than, most least.

ADDITION & SUBTRACTION,

Add and subtract one digit and two digit numbers to 20, including zero.

Solve one step problems that involve addition and subtraction, using concrete objects.

MEASUREMENT

Compare, describe and solve practical problems for Lengths and heights (long/short, tall/short); Mass/weight (heavy/light); Capacity and volume (full/empty, more than/less than, half, half full, quarter); Time (earlier/later, quicker/slower).

Sequence events in chronological order using language n(before/after, today/tomorrow, next/first, morning/afternoon/evening)

Recognise and use language relating to dates including days of the week, weeks, months and years.

PROPERTIES OF SHAPE

Recognise and name common 2D and 3D shapes, including

2D shapes — rectangles, squares, circles and triangles

3D shapes — cubes, cuboids, pyramids and spheres.

YEAR 2

NUMBER AND PLACE VALUE

Identify, represent and estimate numbers using different representations.

ADDITION & SUBTRACTION,

Solve problems with addition and subtraction using concrete objects, including those involving numbers, quantities and measures.

Add and subtract numbers using concrete objects

MEASUREMENT

Choose and use appropriate standard units to estimate and measure lengths/height (m/cm) in any direction, mass (kg/g), temperature (oC) , capacity (l/ml), to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.

Compare and sequence intervals of time.

YEAR 3

NUMBER AND PLACE VALUE

Identify, represent and estimate numbers using different representations.

Solve number problems and practical problems.

ADDITION & SUBTRACTION,

Estimate the answer to a calculation and use inverse operations to check answers

Solve problems, using number facts, place value, and more complex addition and subtraction.

MEASUREMENT

Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g), volume/capacity (l/ml).

Compare the duration of events (for example by the time taken by particular events or tasks).

YEAR 4

NUMBER AND PLACE VALUE

Identify, represent and estimate numbers using different representations.

Round any number to the nearest 10,100 or 1000.

Solve number and practical problems with increasingly large positive numbers.

ADDITION & SUBTRACTION,

Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to sue and why.

MEASUREMENT

Convert between different units of measure (for example km to m, hour to minutes)

Estimate, compare and calculate different measures.

STATISTICS

Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

KEYSTAGE 2

YEAR 5

MULTIPLICATION AND DIVISION

Multiply and divide numbers mentally drawing upon known facts.

Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.

MEASUREMENT

Convert between different units of metric measure (km-m, m-cm, cm-mm, g-kg, l-ml).

Understand and use approximate equivalences between metric units and common imperial units, such as inches, pounds and pints

Estimate volume and capacity.

STATISTICS

Complete, read and interpret information in tables.

YEAR 6

NUMBER AND PLACE VALUE

Round any whole number to the required degree of accuracy

ADDITION, SUBTRACTION, MULTIPLICATION AND DIVISION

Perform mental calculations, including mixed operations and large numbers

Solve addition and subtraction multistep problems in contexts, deciding operations ad methods to use and why.

Solve problems involving addition, subtraction, multiplication and division.

MEASUREMENT

Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate

Use, read, write and convert between standard units, converting measurement of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation up to three decimal places.

STATISTICS

Interpret and construct pie charts and line graphs and use these to solve problems

Calculate and interpret the mean as an average

RATIOS

Solve problems involving the calculation of percentages (e.g.15% of 360) and the use of percentages for comparison.